GenCore version 5.1.4_p5_4578


OM protein - protein search, using sw model

Run on: March 20, 2003, 03:52:32 ; Search time 63 Seconds
(without alignments)
329.954 Million cell updates/sec

Title: US-09-867-958-1
Perfect score: 849
Sequence: 1 MARQHARTLWYDRPMYVFME.....PPAMDDLDDDSDSADDATSN 156

Scoring table: BLOSUM62
Gapop 10.0 , Gapext 0.5

Searched: 908470 seqs, 133250620 residues

Total number of hits satisfying chosen parameters: 908470

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

| Result No. | Score | % Query Match | Length | DB | ID | Description |
|---|---|---|---|---|---|---|
| 1 | 849 | 100.0 | 156 | 20 | AAY02591 | A human progestero |
| 2 | 843 | 99.3 | 156 | 22 | AAM39556 | Human polypeptide |
| 3 | 772 | 90.9 | 543 | 22 | AAM39657 | Human polypeptide |
| 4 | 771 | 90.8 | 619 | 22 | AAM82707 | Human immune/haema |
| 5 | 690 | 81.3 | 196 | 22 | AAM41342 | Human polypeptide |
| 6 | 347.5 | 40.9 | 160 | 22 | AAG63379 | Amino acid sequenc |
| 7 | 347.5 | 40.9 | 180 | 23 | ABP41768 | Human ovarian anti |
| 8 | 238 | 28.0 | 239 | 22 | AAU30460 | Novel human secret |
| 9 | 126 | 14.8 | 69 | 21 | AAB59081 | Breast and ovarian |
| 10 | 126 | 14.8 | 134 | 22 | AAO02613 | Human polypeptide |
| 11 | 125 | 14.7 | 371 | 22 | ABB64334 | Drosophila melanog |
| 12 | 121 | 14.3 | 244 | 21 | AAG09812 | Arabidopsis thalia |
| 13 | 121 | 14.3 | 258 | 21 | AAG47700 | Arabidopsis thalia |
| 14 | 121 | 14.3 | 262 | 21 | AAG32123 | Arabidopsis thalia |
| 15 | 115 | 13.5 | 362 | 22 | AAM93819 | Human polypeptide, |
| 16 | 115 | 13.5 | 362 | 22 | AAM38909 | Human polypeptide |
| 17 | 115 | 13.5 | 362 | 22 | AAB94033 | Human protein sequ |
| 18 | 115 | 13.5 | 371 | 21 | AAB56812 | Human prostate can |
| 19 | 115 | 13.5 | 371 | 22 | AAM40695 | Human polypeptide |
| 20 | 115 | 13.5 | 371 | 22 | AAM40696 | Human polypeptide |
| 21 | 91.5 | 10.8 | 704 | 9 | AAP80087 | Sequence of 85 kd |
| 22 | 91.5 | 10.8 | 704 | 23 | AAU71813 | Trypanosoma antige |
| 23 | 89.5 | 10.5 | 327 | 12 | AAR14026 | Human brain tissue |
| 24 | 89.5 | 10.5 | 487 | 18 | AAW26510 | Amyloid precursor |
| 25 | 89.5 | 10.5 | 487 | 18 | AAW26394 | Amyloid precursor |
| 26 | 89.5 | 10.5 | 487 | 19 | AAW44745 | APP-REP 751 protei |
| 27 | 89.5 | 10.5 | 487 | 19 | AAW42979 | Amyloid precursor |
| 28 | 89.5 | 10.5 | 492 | 14 | AAR45229 | APP-REP 751 amyloi |
| 29 | 89.5 | 10.5 | 492 | 18 | AAW26509 | Amyloid precursor |
| 30 | 89.5 | 10.5 | 492 | 18 | AAW26393 | Amyloid precursor |
| 31 | 89.5 | 10.5 | 492 | 19 | AAW44744 | APP-REP 751 pre |
| 32 | 89.5 | 10.5 | 492 | 19 | AAW42978 | Amyloid precur |
| 33 | 89.5 | 10.5 | 596 | 15 | AAR65797 | Beta-amyloid precu |
| 34 | 89.5 | 10.5 | 651 | 15 | AAR65796 | Beta-amyloid precu |
| 35 | 89.5 | 10.5 | 670 | 15 | AAR65795 | APP751 beta-amyloi |
| 36 | 89.5 | 10.5 | 695 | 9 | AAP81692 | Sequence of human |
| 37 | 89.5 | 10.5 | 695 | 11 | AAR05166 | Sequence of amyloi |
| 38 | 89.5 | 10.5 | 695 | 12 | AAR14046 | Amyloid precursor |
| 39 | 89.5 | 10.5 | 695 | 13 | AAR26338 | APP695. Homo sapi |
| 40 | 89.5 | 10.5 | 695 | 18 | AAW19487 | APP695 mutant A-be |
| 41 | 89.5 | 10.5 | 695 | 18 | AAW19501 | APP695 mutant A-be |
| 42 | 89.5 | 10.5 | 695 | 18 | AAW19504 | APP695 mutant A-be |
| 43 | 89.5 | 10.5 | 695 | 18 | AAW19498 | APP695 mutant A-be |
| 44 | 89.5 | 10.5 | 695 | 18 | AAW19484 | APP695 mutant A-be |
| 45 | 89.5 | 10.5 | 695 | 18 | AAW19495 | APP695 mutant A-be |

ALIGNMENTS

RESULT 1
AAY02591
ID AAY02591 standard; Protein; 156 AA.
XX
AC AAY02591;
XX
DT 19-JUL-1999 (first entry)
XX
DE A human progesterone receptor complex p23-like protein.
XX
KW Human progesterone receptor complex p23-like protein; PR23P;
KW neurological disorder; antagonist; reproductive disorder;
KW immunological disorder; neoplastic disorder.
XX
OS Homo sapiens.
XX
PN WO9919483-A1.
XX
PD 22-APR-1999.
XX
PF 09-OCT-1998; 98WO-US21402.
XX
PR 09-OCT-1997; 97US-0948197.
XX
PA (INCY-) INCYTE PHARM INC.
XX
PI Corley NC, Shah P, Yue H;
XX
DR WPI; 1999-302530/25.
DR N-PSDB; AAX36136.
XX
PT Human progesterone receptor complex p23-like protein
XX

PS Claim 1; Fig 1A-B; 67pp; English.
XX
CC The present sequence represents a human progesterone receptor complex
CC p23-like protein (PR23P). PR23P is used to treat neurological
CC disorders. Antagonists of PR23P are useful for treating reproductive,
CC immunological or neoplastic disorders. Probes and primers based on the
CC PR23P polynucleotides can be used for diagnosis, detection and screening
CC of homologues, and amplification of PR23P genes. Antisense PR23P
CC polynucleotides can be used to decrease or inhibit expression of PR23P.
XX
SQ Sequence 156 AA;

Query Match 100.0%; Score 849; DB 20; Length 156;
Best Local Similarity 100.0%; Pred. No. 1e-82;
Matches 156; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Db    121 VEHYAELLKKVSTKRPPPAMDDLDDDSDSADDATSN 156
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RESULT 2
AAM39556
ID AAM39556 standard; Protein; 156 AA.
XX
AC AAM39556;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polypeptide SEQ ID NO 2701.
XX
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI; 2001-442253/47.
DR N-PSDB; AAI58712.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
PS Example 4; SEQ ID NO 2701; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the prin
CC specification.
XX
SQ Sequence 156 AA;

Query Match 99.3%; Score 843; DB 22; Length 156;
Best Local Similarity 99.4%; Pred. No. 4.5e-82;
Matches 155; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

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Qy     61 NSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAH 120
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Db    121 VEHYAELLKKVSTKRPPPAMDDLDDDSDSADDATSN 156
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RESULT 3
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ID AAM39657 standard; Protein; 543 AA.
XX
AC AAM39657;
XX
DT 22-OCT-2001 (first entry)
XX
DE Human polypeptide SEQ ID NO 2802.
XX
KW Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW peripheral nervous system; neuropathy; central nervous system; CNS;
KW Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW leukaemia.
XX
OS Homo sapiens.
XX
PN WO200153312-A1.
XX
PD 26-JUL-2001.
XX
PF 26-DEC-2000; 2000WO-US34263.
XX
PR 21-JAN-2000; 2000US-0488725.
PR 25-APR-2000; 2000US-0552317.
PR 09-JUL-2000; 2000US-0598042.
PR 19-JUL-2000; 2000US-0620312.
PR 03-AUG-2000; 2000US-0653450.
PR 14-SEP-2000; 2000US-0662191.
PR 19-OCT-2000; 2000US-0693036.
PR 29-NOV-2000; 2000US-0727344.

XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Asundi V, Chen R, Ma Y, Qian XB, Ren F, Wang D;
PI Wang J, Wang Z, Wehrman T, Xu C, Xue AJ, Yang Y, Zhang J;
PI Zhao QA, Zhou P, Goodrich R, Drmanac RT;
XX
DR WPI; 2001-442253/47.
DR N-PSDB; AAI58813.
XX
PT Novel nucleic acids and polypeptides, useful for treating disorders
PT such as central nervous system injuries -
XX
PS Example 4; SEQ ID NO 2802; 10078pp; English.
XX
CC The invention relates to human nucleic acids (AAI57798-AAI61369) and
CC the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC immunosuppressant and cytostatic activity. The polynucleotides are useful
CC in gene therapy. A composition containing a polypeptide or polynucleotide
CC of the invention may be used to treat diseases of the peripheral nervous
CC system, such as peripheral nervous injuries, peripheral neuropathy and
CC localised neuropathies and central nervous system diseases, such as
CC Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC utilisation of the activities such as: Immune system suppression,
CC Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC assays for receptor activity, arthritis and inflammation, leukaemias and
CC C.N.S disorders.
CC Note: The sequence data for this patent did not form part of the printed
CC specification.
XX
SQ Sequence 543 AA;

Query Match 90.9%; Score 772; DB 22; Length 543;
Best Local Similarity 97.9%; Pred. No. 8.7e-74;
Matches 141; Conservative 1; Mismatches 2; Indels 0; Gaps 0;

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Qy    121 VEHYAELLKKVSTKRPPPAMDDLD 144
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Db    121 VEHYAELLKKVSTKRPPPAMDDLD 144
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RESULT 4
AAM82707
ID AAM82707 standard; Protein; 619 AA.
XX
AC AAM82707;
XX
DT 07-NOV-2001 (first entry)
XX
DE Human immune/haematopoietic antigen SEQ ID NO:10300.
XX
KW Human; immune; haematopoietic; immune/haematopoietic antigen; cancer;
KW cytostatic; gene therapy; vaccine; metastasis.
XX
OS Homo sapiens.
XX
PN WO200157182-A2.
XX
PD 09-AUG-2001.
XX
PF 17-JAN-2001; 2001WO-US01354.
XX
PR 31-JAN-2000; 2000US-0179065.
PR 04-FEB-2000; 2000US-0180628.
PR 24-FEB-2000; 2000US-0184664.
PR 02-MAR-2000; 2000US-0186350.
PR 16-MAR-2000; 2000US-0189874.
PR 17-MAR-2000; 2000US-0190076.
PR 18-APR-2000; 2000US-0198123.
PR 19-MAY-2000; 2000US-0205515.
PR 07-JUN-2000; 2000US-0209467.
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PR 07-JUL-2000; 2000US-0216647.
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PR 11-JUL-2000; 2000US-0217487.
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PR 26-JUL-2000; 2000US-0220963.
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PR   17-NOV-2000; 2000US-0249210.
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PR   17-NOV-2000; 2000US-0249299.
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PR   05-DEC-2000; 2000US-0251988.
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PR   08-DEC-2000; 2000US-0251990.
PR   11-DEC-2000; 2000US-0254097.
PR   05-JAN-2001; 2001US-0259678.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
PI   Rosen CA,  Barash SC,  Ruben SM;
XX
DR   WPI; 2001-483426/52.
DR   N-PSDB; AAK55488.
XX
PT   Nucleic acids encoding human immune/hematopoietic antigen polypeptides,
PT   useful for preventing, diagnosing and/or treating cancers and
PT   metastasis -
XX
PS   Claim 11; SEQ ID NO 10300; 3071pp + Sequence Listing; English.
XX
CC   AAK54951 to AAK64702 encode the human immune/haematopoietic antigen (I)
CC   amino acid sequences given in AAM82170 to AAM91921. (I) have cytostatic
CC   activity, and can be used in gene therapy and vaccine production. (I)
CC   proteins and polynucleotides may be used in the prevention, diagnosis and
CC   treatment of diseases associated with inappropriate (I) expression. For
CC   example, they may be used to treat disorders associated with decreased
CC   expression by rectifying mutations or deletions in a patient's genome
CC   that affect the activity of (I) by expressing inactive proteins or to
CC   supplement the patients own production of (I). Additionally, (I)
CC   polynucleotides may be used to produce the secreted (I), by inserting
CC   the nucleic acids into a host cell and culturing the cell to express the
CC   protein. (I) proteins and polynucleotides may be used to prevent,
CC   diagnose and treat immune/haematopoietic-related diseases, especially
CC   cancers and cancer metastases of haematopoietic-derived cells. AAK64703
CC   to AAK87694 represent human immune/haematopoietic antigen genomic
CC   sequences from the present invention. AAK54942 to AAK54950 and AAM821f
CC   represent sequences used in the exemplification of the present inventi
XX
SQ   Sequence   619 AA;

  Query Match            90.8%;  Score 771;  DB 22;  Length 619;
  Best Local Similarity  97.9%;  Pred. No. 1.3e-73;
  Matches  141;  Conservative    0;  Mismatches    3;  Indels    0;  Gaps    0;

Qy       1 MARQHARTLWYDRPMYVFMEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKV 60
           ||| |||||||||| ||||||||||||||||||||||||||||||||||||||||||||||
Db      61 MARXHARTLWYDRPRYVFMEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKX 120

Qy      61 NSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAH 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     121 NSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAH 180

Qy     121 VEHYAELLKKVSTKRPPPAMDDLD 144
           ||||||||||||||||||||||||
Db     181 VEHYAELLKKVSTKRPPPAMDDLD 204


RESULT 5
AAM41342
ID   AAM41342 standard; Protein; 196 AA.
XX
AC   AAM41342;
XX
DT   22-OCT-2001  (first entry)
XX
DE   Human polypeptide SEQ ID NO 6273.
XX
KW   Human; nootropic; immunosuppressant; cytostatic; gene therapy; cancer;
KW   peripheral nervous system; neuropathy; central nervous system; CNS;
KW   Alzheimer's; Parkinson's disease; Huntington's disease; haemostatic;
KW   amyotrophic lateral sclerosis; Shy-Drager Syndrome; chemotactic;
KW   chemokinetic; thrombolytic; drug screening; arthritis; inflammation;
KW   leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200153312-A1.
XX
PD   26-JUL-2001.
XX
PF   26-DEC-2000; 2000WO-US34263.
XX
PR   21-JAN-2000; 2000US-0488725.
PR   25-APR-2000; 2000US-0552317.
PR   09-JUL-2000; 2000US-0598042.
PR   19-JUL-2000; 2000US-0620312.
PR   03-AUG-2000; 2000US-0653450.
PR   14-SEP-2000; 2000US-0662191.
PR   19-OCT-2000; 2000US-0693036.
PR   29-NOV-2000; 2000US-0727344.
```

```
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Asundi V,  Chen R,  Ma Y,  Qian XB,  Ren F,  Wang D;
PI   Wang J,  Wang Z,  Wehrman T,  Xu C,  Xue AJ,  Yang Y,  Zhang J;
PI   Zhao QA,  Zhou P,  Goodrich R,  Drmanac RT;
XX
DR   WPI; 2001-442253/47.
DR   N-PSDB; AAI60498.
XX
PT   Novel nucleic acids and polypeptides, useful for treating disorders
PT   such as central nervous system injuries -
XX
PS   Example 2; SEQ ID NO 6273; 10078pp; English.
XX
CC   The invention relates to human nucleic acids (AAI57798-AAI61369) and
CC   the encoded polypeptides (AAM38642-AAM42213) with nootropic,
CC   immunosuppressant and cytostatic activity. The polynucleotides are useful
CC   in gene therapy. A composition containing a polypeptide or polynucleotide
CC   of the invention may be used to treat diseases of the peripheral nervous
CC   system, such as peripheral nervous injuries, peripheral neuropathy and
CC   localised neuropathies and central nervous system diseases, such as
CC   Alzheimer's, Parkinson's disease, Huntington's disease, amyotrophic
CC   lateral sclerosis, and Shy-Drager Syndrome. Other uses include the
CC   utilisation of the activities such as: Immune system suppression,
CC   Activin/inhibin activity, chemotactic/chemokinetic activity, haemostatic
CC   and thrombolytic activity, cancer diagnosis and therapy, drug screening,
CC   assays for receptor activity, arthritis and inflammation, leukaemias and
CC   C.N.S disorders.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification.
XX
SQ   Sequence   196 AA;

  Query Match             81.3%;  Score 690;  DB 22;  Length 196;
  Best Local Similarity   98.4%;  Pred. No. 1.3e-65;
  Matches  125;  Conservative    1;  Mismatches    1;  Indels    0;  Gaps    0;

Qy       1 MARQHARTLWYDRPMYVFMEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKV 60
           |||||||||||||| ||||||||||||||||||||||||||||||||||||||||||||
Db      60 MARQHARTLWYDRPRYVFMEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKV 119

Qy      61 NSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAH 120
           ||||||||||||||||||||||||||||||||||||||||||||||||||||||||||||
Db     120 NSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAH 179

Qy     121 VEHYAEL 127
           |||||||:
Db     180 VEHYAEV 186


RESULT 6
AAG63379
ID   AAG63379 standard; Protein; 160 AA.
XX
AC   AAG63379;
XX
DT   15-OCT-2001  (first entry)
XX
DE   Amino acid sequence of a human prostaglandin E1 (PGE1) synthase.
XX
KW   Human; prostaglandin E1 synthase; PGE1 synthase; arachidonic acid;
KW   inflammation.
XX
OS   Homo sapiens.
XX
PN   WO200157225-A1.
XX
PD   09-AUG-2001.
XX
PF   25-AUG-2000; 2000WO-JP05758.
XX
PR   03-FEB-2000; 2000JP-0032704.
XX
PA   (CHUS ) CHUGAI SEIYAKU KK.
PA   (KUDO/) KUDO I.
XX
PI   Kudo I,  Murakami M,  Ohishi S;
XX
DR   WPI; 2001-483439/52.
DR   N-PSDB; AAH43100.
XX
PT   PGES-1 protein and encoded gene with PGE2 synthase activity, useful in
PT   screening efficient PGE2 synthase inhibitors as antiinflammatory agents
PT   -
XX
PS   Claim 1; Fig 5; 54pp; Japanese.
XX
CC   The present sequence represents a human prostaglandin E1 (PGE1) synthase.
CC   The protein synthesizes PGE2 from arachidonic acid in consort with COX.
CC   The PGE2 synthase protein and gene are useful in screening for efficient
CC   PGE2 synthase inhibitors. These inhibitors are useful as
CC   anti-inflammatory agents.
XX
SQ   Sequence   160 AA;

  Query Match             40.9%;  Score 347.5;  DB 22;  Length 160;
  Best Local Similarity   43.4%;  Pred. No. 3.9e-29;
  Matches   66;  Conservative   30;  Mismatches   53;  Indels    3;  Gaps    2;

Qy       4 QHARTLWYDRPMYVFMEFCVEDSTDVHVLIEDHRIVFSC-KNADGVELYNEIEFYAKVNS 62
           | |   |||| |||:||||||| ||:|  |  :: |||   :|  :  |||: :  ::
Db       2 QPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLGGSDNFKHLNEIDLFHCIDP 61

Qy      63 KDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAHVE 122
            ||: ||: ||| | :|| :   :|||||||  |  ||||||:||:||| | : :::: :
Db      62 NDSKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDMSNFD 121

Qy     123 HYAELLKKVSTKRPP--PAMDDLDDDSDSADD 152
           ::|::  :        | :|  ||||  :||
Db     122 RFSEMMNNMGGDEDVDLPEVDGADDDSQDSDD 153


RESULT 7
ABP41768
ID   ABP41768 standard; Protein; 180 AA.
XX
AC   ABP41768;
XX
DT   22-AUG-2002  (first entry)
XX
DE   Human ovarian antigen HOPKT59, SEQ ID NO:2900.
XX
KW   Human; ovarian antigen; ovary; ovarian; breast; cancer; tumour;
KW   ovarian cancer; breast cancer; tumour; reproductive system disorder;
KW   infertility; pregnancy disorder; anovulation; polycystic ovary syndrome;
KW   PCOS; ovarian cyst; dysmenorrhoea; endocrine disorder; infection;
KW   inflammatory condition; immune disorder; blood disorder;
KW   cardiovascular disorder; respiratory disorder; neurological disorder;
KW   gastrointestinal disorder; urinary system disorder; drug screening;
KW   gene therapy; chromosome mapping; forensic analysis;
KW   antibody preparation; cytostatic; immunomodulatory; neuroprotective;
KW   antiinflammatory; gynaecological; reproductive.
XX
OS   Homo sapiens.
XX
PN   WO200200677-A1.
XX
PD   03-JAN-2002.
XX
PF   07-JUN-2001; 2001WO-US18569.
XX
PR   07-JUN-2000; 2000US-209467P.
XX
PA   (HUMA-) HUMAN GENOME SCI INC.
XX
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```
PI   Birse CE,  Rosen CA;
XX
DR   WPI; 2002-147878/19.
DR   N-PSDB; ABQ54845.
XX
PT   Isolated nucleic acid molecules encoding novel ovarian polypeptides,
PT   useful in the prevention, treatment and diagnosis of cancer (e.g.
PT   ovarian cancer), immune disorders, cardiovascular disorders and
PT   neurological diseases -
XX
PS   Claim 11; SEQ ID No 2900; 2922pp; English.
XX
CC   The invention relates to 2175 novel human ovarian antigens (ABP41054-
CC   ABP43228) and to cDNAs encoding them (ABQ54131-ABQ56305), and also
CC   encompasses polypeptides 90% identical and polynucleotides 95% identical
CC   to the sequences of the invention. The invention additionally relates to
CC   recombinant vectors and host cells comprising human ovarian antigen
CC   polynucleotides, antibodies against human ovarian antigens, and the use
CC   of ovarian antigen polynucleotides and polypeptides in diagnosing,
CC   treating, prognosing or preventing various ovary and/or breast-related
CC   disorders. Such conditions include ovarian cancer and breast cancer, and
CC   metastatic tumours of ovarian or breast origin, reproductive system
CC   disorders (e.g., infertility, disorders of pregnancy, anovulation,
CC   polycystic ovary syndrome, ovarian cysts, and dysmenorrhoea), endocrine
CC   disorders, infections (e.g., chlamydia, HIV, toxoplasmosis, and toxic
CC   shock syndrome), inflammatory conditions (e.g., mastitis, oophoritis and
CC   vaginitis), immune disorders (e.g., congenital and acquired
CC   immunodeficiencies, autoimmune oophoritis, systemic lupus erythematosus),
CC   blood-related disorders (e.g., anaemia), cardiovascular disorders,
CC   respiratory disorders, neurological disorders, gastrointestinal disorders
CC   and urinary system disorders. Ovarian antigen polypeptides and
CC   polynucleotides may also be used in screening for compounds which
CC   modulate ovarian antigen expression or activity. The polynucleotides may
CC   further be used for gene therapy, chromosome mapping, in the
CC   identification of individuals and in forensic analysis, and the
CC   polypeptides may be used as food additives or to prepare antibodies
CC   useful in disease diagnosis, drug targeting and phenotyping. The present
CC   sequence represents a human ovarian antigen of the invention.
CC   Note: The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   180 AA;

  Query Match             40.9%;  Score 347.5;  DB 23;  Length 180;
  Best Local Similarity   43.4%;  Pred. No. 4.5e-29;
  Matches   66;  Conservative   30;  Mismatches   53;  Indels    3;  Gaps    2;

Qy       4 QHARTLWYDRPMYVFMEFCVEDSTDVHVLIEDHRIVFSC-KNADGVELYNEIEFYAKVNS 62
           | |   ||||  |||:||||||| ||:|  |  :: |||   :|  :  |||: :  ::
Db      22 QPASAKWYDRRDYVFIEFCVEDSKDVNVNFEKSKLTFSCLGGSDNFKHLNEIDLFHCIDP 81

Qy      63 KDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAHVE 122
            ||: ||: ||| | :|| :   :|||||||  |  ||||||:||:||| | : :::: :
Db      82 NDSKHKRTDRSILCCLRKGESGQSWPRLTKERAKLNWLSVDFNNWKDWEDDSDEDMSNFD 141

Qy     123 HYAELLKKVSTKRPP--PAMDDLDDDSDSADD 152
           ::|::  :        | :|  ||||  :||
Db     142 RFSEMMNNMGGDEDVDLPEVDGADDDSQDSDD 173


RESULT 8
AAU30460
ID   AAU30460 standard; Protein; 239 AA.
XX
AC   AAU30460;
XX
DT   18-DEC-2001  (first entry)
XX
DE   Novel human secreted protein #951.
XX
KW   Human; vaccination; gene therapy; nutritional supplement;
KW   stem cell proliferation; haematopoiesis; nerve tissue regeneration;
KW   immune suppression; immune stimulation; anti-inflammatory; leukaemia.
XX
OS   Homo sapiens.
XX
PN   WO200179449-A2.
XX
PD   25-OCT-2001.
XX
PF   16-APR-2001; 2001WO-US08656.
XX
PR   18-APR-2000; 2000US-0552929.
PR   26-JAN-2001; 2001US-0770160.
XX
PA   (HYSE-) HYSEQ INC.
XX
PI   Tang YT,  Liu C,  Drmanac RT;
XX
DR   WPI; 2001-611725/70.
XX
PT   Nucleic acids encoding a range of human polypeptides, useful in genet
PT   vaccination, testing and therapy -
XX
PS   Claim 20; Page 296; 765pp; English.
XX
CC   The invention relates to novel human secreted polypeptides. The
CC   polypeptides and antibodies to the polypeptides are useful for
CC   determining the presence of or predisposition to a disease associated
CC   with altered levels of polypeptide. The polypeptides are also useful for
CC   identifying agents (agonists and antagonists) that bind to them. Cells
CC   expressing the proteins are useful for identifying a therapeutic agent
CC   for use in treatment of a pathology related to aberrant expression or
CC   physiological interactions of the polypeptide. Vectors comprising
CC   the nucleic acids encoding the polypeptides and cells genetically
CC   engineered to express them are also useful for producing the proteins.
CC   The proteins are useful in genetic vaccination, testing and
CC   therapy, and can be used as nutritional supplements. They may be used to
CC   increase stem cell proliferation; to regulate haematopoiesis; and in
CC   bone, cartilage, tendon  and/or nerve tissue growth or regeneration;
CC   immune suppression and/or stimulation; as anti-inflammatory agents; and
CC   in treatment of leukaemias. AAU29510-AAU33304 represent the amino acid
CC   sequences of novel human secreted proteins of the invention.
XX
SQ   Sequence   239 AA;

  Query Match             28.0%;  Score 238;  DB 22;  Length 239;
  Best Local Similarity   36.8%;  Pred. No. 3.3e-17;
  Matches   60;  Conservative   30;  Mismatches   55;  Indels   18;  Gaps

Qy       4 QHARTLWYDRPMYVF-MEFC-VEDSTDVHVLIEDHRIV-FSC----KNADGVELYNEIEF 56
           | |   ||||  ||   ||  :   ||:|  |  :   |||     |  |:   |||:
Db      74 QPASAKWYDRRDYVLKWEFVFLNTLRDVNVNFEKSKTYNFSCLGGSDNFXGI--LNEIDL 131

Qy      57 YAKVNSKDSQDKRSSRSITCFVRK---WKEKVAWPR-LTKEDIKP-VWLSVDFDNWRDWE 111
           :  ::  ||: ||: ||| | :||   |    :||: |||| |  :|:||||:||:|||
Db     132 FHCIDPNDSKHKRTDRSILCCLRKRRIWAS--SWPKGLTKERGKGLIWVSVDFNNWKDWE 189

Qy     112 GDEEMELAHVEHYAELLKKVSTKR--PPPAMDDLDDDSDSADD 152
           | : :::: : ::|::  :        | :|  ||||  :||
Db     190 DDSDEDMSNFDRFSEMMNNMGGDEVVDYPEVDGADDDSQDSDD 232


RESULT 9
AAB59081
ID   AAB59081 standard; Protein; 69 AA.
XX
AC   AAB59081;
XX
DT   27-MAR-2001  (first entry)
XX
DE   Breast and ovarian cancer associated antigen protein sequence SEQ ID 789.
XX
KW   Human; breast cancer; ovarian cancer; cytostatic; immunosuppressive;
KW   nootropic; neurpprotective; antiviral; antiallergic; hepatotropic;
```

KW antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant;
KW antibacterial; antifungal; antiparasitic; cardiant; immune disorder;
KW Addison's disease; allergy; autoimmune haemolytic anaemia;
KW autoimmune thyroiditis; diabetes mellitus; Crohn's disease;
KW multiple sclerosis; rheumatoid arthritis; ulcerative colitis;
KW cardiovascular disorder; wound healing; neurological disease.
XX
OS Homo sapiens.
XX
PN WO200055173-A1.
XX
PD 21-SEP-2000.
XX
PF 08-MAR-2000; 2000WO-US05881.
XX
PR 12-MAR-1999; 99US-0124270.
XX
PA (HUMA-) HUMAN GENOME SCI INC.
XX
PI Rosen CA, Ruben SM;
XX
DR WPI; 2000-611515/58.
DR N-PSDB; AAF21984.
XX
PT New human breast and ovarian cancer associated gene sequences and the
PT polypeptides encoded by these genes, useful in the prevention,
PT treatment and diagnosis of cancer, immune disorders, cardiovascular
PT disorders and neurological diseases -
XX
PS Claim 11; Page 1251-1252; 1299pp; English.
XX
CC Sequences AAF21614 - AAF22031 represent DNA sequences encoding human
CC proteins AAB58711 - AAB59128. The DNA and protein sequences are
CC associated with breast and ovarian cancer. Included in the invention are
CC sequences AAF22032 - AAF22040 and AAB59129 which are used in the
CC isolation and characterisation of the DNA and protein sequences of the
CC invention. The breast and ovarian cancer associated DNA, protein, agonist
CC or antagonist sequences exhibit cytostatic; immunosuppressive;
CC nootropic; neuroprotective; antiviral; antiallergic; hepatotropic;
CC antidiabetic; antiinflammatory; antiulcer; vulnerary; anticonvulsant;
CC antibacterial; antifungal; antiparasitic and cardiant activity. The
CC polynucleotide and protein sequences are used in the diagnosis of cancer,
CC particularly breast and ovarian cancer. The nucleic acid sequences,
CC proteins, agonists and agonists may also be used in the diagnosis,
CC prevention and treatment of immune disorders e.g. Addison's disease,
CC allergies, autoimmune haemolytic anaemia, autoimmune thyroiditis,
CC diabetes mellitus, Crohn's disease, multiple sclerosis, rheumatoid
CC arthritis and ulcerative colitis; cardiovascular disorders such as
CC myocardial ischaemias; wound healing; neurological diseases such as
CC cerebral anoxia and epilepsy; and infectious diseases.
XX
SQ Sequence 69 AA;

Query Match 14.8%; Score 126; DB 21; Length 69;
Best Local Similarity 41.9%; Pred. No. 6e-06;
Matches 26; Conservative 10; Mismatches 26; Indels 0; Gaps 0;

```
Qy      46 DGVELYNEIEFYAKVNSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFD 105
           |  :  | |  :  ::   |: ||: ||| | :|| :   :|  ||||  |  ||||||:
Db       3 DNFKHLNGIXLFHCIDPNGSKHKRTDRSILCCLRKGESGQSWQGLTKERAKLNWLSVDFN 62

Qy     106 NW 107
           ||
Db      63 NW 64
```

RESULT 10
AAO02613
ID AAO02613 standard; Protein; 134 AA.
XX
AC AAO02613;
XX
DT 06-NOV-2001 (first entry)

XX
DE Human polypeptide SEQ ID NO 16505.
XX
KW Human; cytokine; cell proliferation; cell differentiation; gene therapy;
KW vaccine; peptide therapy; stem cell growth factor; haematopoiesis;
KW tissue growth factor; immunomodulatory; cancer; leukaemia;
KW nervous system disorders; arthritis; inflammation.
XX
OS Homo sapiens.
XX
PN WO200164835-A2.
XX
PD 07-SEP-2001.
XX
PF 26-FEB-2001; 2001WO-US04927.
XX
PR 28-FEB-2000; 2000US-0515126.
PR 18-MAY-2000; 2000US-0577409.
XX
PA (HYSE-) HYSEQ INC.
XX
PI Tang YT, Liu C, Drmanac RT;
XX
DR WPI; 2001-514838/56.
DR N-PSDB; AAI82544.
XX
PT Isolated nucleic acids and polypeptides, useful for preventing
PT diagnosing and treating e.g. leukaemia, inflammation and immune
PT disorders -
XX
PS Claim 20; SEQ ID NO 16505; 1399pp + Sequence Listing; English.
XX
CC The invention relates to human polynucleotides (AAI79941-AAI93841) and
CC the encoded proteins (AAO00010-AAO13910) that exhibit activity elating to
CC cytokine, cell proliferation or cell differentiation or which may induce
CC production of other cytokines in other cell populations. The
CC polynucleotides and polypeptides are useful in gene therapy, vaccines or
CC peptide therapy. The polypeptides have various cytokine-like activities,
CC e.g. stem cell growth factor activity, haematopoiesis regulating
CC activity, tissue growth factor activity, immunomodulatory activity and
CC activin/inhibin activity and may be useful in the diagnosis and/or
CC treatment of cancer, leukaemia, nervous system disorders, arthritis and
CC inflammation.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in electronic format directly from WIPO
CC at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ Sequence 134 AA;

Query Match 14.8%; Score 126; DB 22; Length 134;
Best Local Similarity 24.8%; Pred. No. 1.4e-05;
Matches 31; Conservative 31; Mismatches 49; Indels 14; Gaps 3;

```
Qy      19 MEFCVEDSTDVHVLIEDHRIVFSCKNADGVELYNEIEFYAKVNSKDSQDKRSSRSITCFV 78
           :  ||  ::  |     |:           |:|     :: :| ::| :|::| | | :
Db       8 LNLCVTTASLKHFFSIAHKF----------HLHNGSHLQSQ-HSCEAQLRRTARFIICCL 56

Qy      79 RKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAHVEHYAELLKKVSTKRPPP 138
              :   :|| || |    ||:| |:||:||| | :  ::: :  :|::  :   |
Db      57 PYGESGQSWPTLTLERANLNWLTVYFNNWKDWEYDSDQYMSNFDRSSEMMNIIVWXR--- 113

Qy     139 AMDDL 143
           ::|:|
Db     114 SIDNL 118
```

RESULT 11
ABB64334
ID ABB64334 standard; Protein; 371 AA.
XX
AC ABB64334;
XX
DT 26-MAR-2002 (first entry)

```
XX
DE   Drosophila melanogaster polypeptide SEQ ID NO 19794.
XX
KW   Drosophila; developmental biology; cell signalling; insecticide;
KW   pharmaceutical.
XX
OS   Drosophila melanogaster.
XX
PN   WO200171042-A2.
XX
PD   27-SEP-2001.
XX
PF   23-MAR-2001; 2001WO-US09231.
XX
PR   23-MAR-2000; 2000US-191637P.
PR   11-JUL-2000; 2000US-0614150.
XX
PA   (PEKE ) PE CORP NY.
XX
PI   Venter JC,  Adams M,  Li PWD,  Myers EW;
XX
DR   WPI; 2001-656860/75.
DR   N-PSDB; ABL08437.
XX
PT   New isolated nucleic acid detection reagent for detecting 1000 or more
PT   genes from Drosophila and for elucidating cell signalling and cell-cell
PT   interactions -
XX
PS   Disclosure; SEQ ID NO 19794; 21pp + Sequence Listing; English.
XX
CC   The invention relates to an isolated nucleic acid detection reagent
CC   capable of detecting 1000 or more genes from Drosophila. The invention is
CC   useful in developmental biology and in elucidating cell signalling and
CC   cell-cell interactions in higher eukaryotes for the development of
CC   insecticides, therapeutics and pharmaceutical drugs. The invention
CC   discloses genomic DNA sequences (ABL16176-ABL30511), expressed DNA
CC   sequences (ABL01840-ABL16175) and the encoded proteins
CC   (ABB57737-ABB72072).
CC   The sequence data for this patent did not form part of the printed
CC   specification, but was obtained in electronic format directly from WIPO
CC   at ftp.wipo.int/pub/published_pct_sequences.
XX
SQ   Sequence   371 AA;

  Query Match             14.7%;  Score 125;  DB 22;  Length 371;
  Best Local Similarity   36.2%;  Pred. No. 6.7e-05;
  Matches   34;  Conservative   13;  Mismatches   37;  Indels   10;  Gaps    4;

Qy      45 ADGVELYN-EIEFYAKVNSKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVD 103
           | ||  |  |: ||| :: :::    |   |   :||  |   ||||     || || :|
Db      47 ARGVNAYKFELHFYALIDDENATFVVSDNKIELQIRK-LEPEWWPRLVATPQKPHWLKID 105

Qy     104 FDNWRDWEGDEEME-------LAHVEHYAELLKK 130
           || ||  | | |:|         : : ||:| |:
Db     106 FDRWRT-EDDVEVEEKPRDVRQDYEKEYADLQKR 138


RESULT 12
AAG09812
ID   AAG09812 standard; Protein; 244 AA.
XX
AC   AAG09812;
XX
DT   17-OCT-2000  (first entry)
XX
DE   Arabidopsis thaliana protein fragment SEQ ID NO: 7889.
XX
KW   Protein identification; signal transduction pathway; metabolic pathway;
KW   hybridisation assay; genetic mapping; gene expression control; promoter;
KW   termination sequence.
XX
OS   Arabidopsis thaliana.
XX
```

```
PN   EP1033405-A2.
XX
PD   06-SEP-2000.
XX
PF   25-FEB-2000; 2000EP-0301439.
XX
PR   25-FEB-1999;   99US-0121825.
PR   05-MAR-1999;   99US-0123180.
PR   09-MAR-1999;   99US-0123548.
PR   23-MAR-1999;   99US-0125788.
PR   25-MAR-1999;   99US-0126264.
PR   29-MAR-1999;   99US-0126785.
PR   01-APR-1999;   99US-0127462.
PR   06-APR-1999;   99US-0128234.
PR   08-APR-1999;   99US-0128714.
PR   16-APR-1999;   99US-0129845.
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KW hybridisation assay; genetic mapping; gene expression control; promoter;
KW termination sequence.
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OS Arabidopsis thaliana.

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KW   termination sequence.
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PR 26-OCT-1999; 99US-0161361.
PR 28-OCT-1999; 99US-0161920.
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PR 28-OCT-1999; 99US-0161993.
PR 29-OCT-1999; 99US-0162142.

Query Match 14.3%; Score 121; DB 21; Length 262;
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Matches 35; Conservative 25; Mismatches 57; Indels 10; Gaps 5;

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Db       7 RHPEVKWAETTEKIFLTVVLADTKDTKVNLDPEGVFDFSAKVGPENHVYELKLELADKVN 66

Qy      62 SKDSQDKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDE------E 115
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Qy     116 MELAHVE 122
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RESULT 15
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ID AAM93819 standard; Protein; 362 AA.
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AC AAM93819;
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DT 06-NOV-2001 (first entry)
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DE Human polypeptide, SEQ ID NO: 3873.
XX
KW Human; full length cDNA; cDNA synthesis; oligo-capping.
XX
OS Homo sapiens.

XX
PN EP1130094-A2.
XX
PD 05-SEP-2001.
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PF 07-JUL-2000; 2000EP-0114089.
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PR 08-JUL-1999; 99JP-0194486.
PR 11-JAN-2000; 2000JP-0118774.
PR 02-MAY-2000; 2000JP-0183765.
XX
PA (HELI-) HELIX RES INST.
XX
PI Ota T, Nishikawa T, Isogai T, Hayashi K, Ishii S, Kawai Y;
PI Wakamatsu A, Sugiyama T, Nagai K, Kojima S, Otsuki T, Koga H;
XX
DR WPI; 2001-524255/58.
DR N-PSDB; AAK94775.
XX
PT 830 Primers useful for synthesizing full length cDNA clones and their
PT use in genetic manipulation -
XX
PS Claim 8; SEQ ID NO 3873; 1380pp + sequence listing; English.
XX
CC The invention relates to primers for synthesising full length cDNA
CC clones. 830 cDNA molecules encoding a human protein have been
CC isolated and nucleotide sequences of 5'- and 3'-ends of the cDNA
CC molecules have been determined. Primers for synthesising the full length
CC cDNA are useful for clarifying the function of the protein encoded by
CC the cDNA. The full length clones were obtained by construction of full
CC length enriched cDNA libraries that were synthesised by the oligo-capping
CC method. The primers enable the production of the full length cDNA easily
CC without any special methods. The present sequence is a polypeptide
CC encoded by a full length human cDNA of the invention.
CC Note: The sequence data for this patent did not form part of the printed
CC specification, but was obtained in CD-ROM format directly from EPO.
XX
SQ Sequence 362 AA;

Query Match 13.5%; Score 115; DB 22; Length 362;
Best Local Similarity 30.4%; Pred. No. 0.00076;
Matches 38; Conservative 23; Mismatches 56; Indels 8; Gaps 6;

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Qy      67 DKRSSRSITCFVRKWKEKVAWPRLTKEDIKPVWLSVDFDNWRDWEGDEEMELAHVEHYAE 126
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Qy     127 LLKKV 131
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Job time : 69 secs